

Permit to Operate

FACILITY: N-1026

EXPIRATION DATE: 07/31/200

LEGAL OWNER OR OPERATOR: THERMAL ENERGY DEV. CORP, LTD

MAILING ADDRESS: PO BOX 1209
TRACY, CA 95378

FACILITY LOCATION: 14800 W SCHULTE RD
TRACY, CA 95377

FACILITY DESCRIPTION: ELECTRICAL GENERATION FACILITY

The Facility to Operate may include Facility-wide Requirements as well as requirements that apply to specific permit units.

The Permit to Operate remains valid through the permit expiration date listed above, subject to payment of annual permit fees and compliance with permit conditions and all applicable local, state, and federal regulations. This permit is valid only at the location specified above, and becomes void upon any transfer of ownership or location. Any modification of the equipment or operation, as defined in District Rule 2201, will require prior District approval. This permit shall be posted as prescribed in District Rule 2010.

DAVID L. CROW

Executive Director / APCO

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Director of Permit Services

Initial TV Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1026-0-1

EXPIRATION DATE: 07/31/2005

EQUIPMENT DESCRIPTION:

PERMIT UNIT REQUIREMENTS

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)], [Federally Enforceable Through Title V]
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)], [Federally Enforceable Through Title V]
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0], [Federally Enforceable Through Title V]
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020. [District Rule 2010, 3.0 and 4.0; and 2020], [Federally Enforceable Through Title V]
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.9.1 and 9.13.1], [Federally Enforceable Through Title V]
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031], [Federally Enforceable Through Title V]
7. Every application for a permit required under Rule 2010 (Permits Required) shall be filed in a manner and form prescribed by the District. [District Rule 2040], [Federally Enforceable Through Title V]
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.5.1], [Federally Enforceable Through Title V]
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.5.2], [Federally Enforceable Through Title V]
10. The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.6.1], [Federally Enforceable Through Title V]
11. Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520. [District Rules 2520, 9.6.2 and 1100, 7.0], [Federally Enforceable Through Title V]
12. If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.8], [Federally Enforceable Through Title V]

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13. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.9.2], [Federally Enforceable Through Title V]
14. The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.9.3], [Federally Enforceable Through Title V]
15. The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.9.4], [Federally Enforceable Through Title V]
16. The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.9.5], [Federally Enforceable Through Title V]
17. The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.10], [Federally Enforceable Through Title V]
18. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.14.2.1], [Federally Enforceable Through Title V]
19. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.14.2.2], [Federally Enforceable Through Title V]
20. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.14.2.3], [Federally Enforceable Through Title V]
21. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.14.2.4], [Federally Enforceable Through Title V]
22. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101, by using EPA method 9. If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and County Rules 401 (in all eight counties in the San Joaquin Valley)], [Federally Enforceable Through Title V]
23. No person shall supply, sell, solicit or apply any architectural coating, except specialty coatings, that contains more than 250 grams of VOC per liter of coating (less water and exempt compounds, and excluding any colorant added to tint bases), or manufacture, blend, or repackage such coating with more than 250 grams of VOC per liter (less water and exempt compounds, and excluding any colorant added to tint bases) for use within the District. [District Rule 4601, 5.1], [Federally Enforceable Through Title V]
24. Specialty Coating Limitations: No person shall apply, sell, solicit, or offer for sale any specialty architectural coating listed in the Table of Standards (District Rule 4601, Table 1 and Table 2), nor manufacture, blend, or repackage such coating for use within the District, which contains VOCs in excess of the specified limits after the corresponding date listed in Table 1 (grams of VOC per liter of coating as applied less water and exempt compounds, excluding any colorant added to tint bases) and in Table 2 (grams of VOC per liter of material), except as provided in Section 5.3 of Rule 4601. [District Rule 4601, 5.2], [Federally Enforceable Through Title V]
25. All VOC-containing materials shall be stored in closed containers when not in use. In use includes, but is not limited to: being accessed, filled, emptied, maintained or repaired. [District Rule 4601, 5.4], [Federally Enforceable Through Title V]
26. A person shall not use VOCs for the cleanup of spray equipment unless equipment for collection of the cleaning compounds and minimizing its evaporation to the atmosphere is used. [District Rule 4601, 5.5], [Federally Enforceable Through Title V]
27. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.2. [District Rule 4601, 6.1 and 6.2], [Federally Enforceable Through Title V]
28. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.14.1 and 10.0], [Federally Enforceable Through Title V]
29. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F], [Federally Enforceable Through Title V]
30. If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart F. [40 CFR Part 82, Subpart F], [Federally Enforceable Through Title V]

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31. Disturbances of soil related to any construction, demolition, excavation, extraction, or water mining activities shall comply with the requirements for fugitive dust control in SJVUAPCD District Rule 8020 unless specifically exempted under section 4 of Rule 8020. [District Rule 8020], [Federally Enforceable Through Title V]
32. Outdoor handling and storage of any bulk material which emits dust shall comply with the requirements of SJVUAPCD Rule 8030, unless specifically exempted under section 4 of Rule 8030. [District Rule 8030], [Federally Enforceable Through Title V]
33. Any paved road over 3 miles in length, and any unpaved roads over half a mile in length, constructed after December 10, 1993 shall use the design criteria and dust control measures of, and comply with the administrative requirements of, SJVUAPCD Rule 8060 unless specifically exempted under section 4 of Rule 8060. [District Rule 8060], [Federally Enforceable Through Title V]
34. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M], [Federally Enforceable Through Title V]
35. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.17], [Federally Enforceable Through Title V]
36. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2], [Federally Enforceable Through Title V]
37. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permit shall apply. [District Rule 2520, 9.1.1], [Federally Enforceable Through Title V]
38. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
39. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (12/17/92); 4601, sections 5.1, 5.2, 5.4, 5.5, 6.1, and 6.2 (9/17/97); 8020 (4/25/96); 8030 (4/25/96); 8060 (4/25/96); A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
40. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
41. On December 31, 2001, the initial Title V permit was issued, the reporting period of the Report of Required Monitoring and the Compliance Certification Report are based upon this initial permit issuance date, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of reporting period. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1026-1-3

EXPIRATION DATE: 07/31/2005

EQUIPMENT DESCRIPTION:

BABCOCK AND WILCOX 259 MMBTU/HR CONTROLLED-COMBUSTION ZONE BIOMASS FIRED BOILER SERVING A 20.5 MW ELECTRICAL GENERATOR.

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. At no time shall the opacity exceed 27%. [District Rule 4101 and 40 CFR 60.43b(f)], [Federally Enforceable Through Title V]
2. The flue gas from the combustor shall be vented through an Electrostatic Precipitator (ESP) at all times, including the soot blowing periods. [District NSR Rule], [Federally Enforceable Through Title V]
3. The ESP shall be equipped with working gauges indicating the corona (secondary) voltage and current. [District NSR Rule], [Federally Enforceable Through Title V]
4. The boiler shall utilize limestone/lime injection for SO_x control and a thermal DeNO_x system (selective noncatalytic reduction system) utilizing ammonia injection for NO_x control. [District NSR Rule], [Federally Enforceable Through Title V]
5. Particulate matter emissions from any combustion source shall not exceed 0.1 grains/dscf (calculated to 12% carbon dioxide). [District Rule 4301], [Federally Enforceable Through Title V]
6. The particulate matter emissions shall not exceed 8.75 pounds during any one hour. [District NSR Rule], [Federally Enforceable Through Title V]
7. The PM₁₀ emissions shall not exceed 8.75 pounds during any one hour. [District NSR Rule], [Federally Enforceable Through Title V]
8. The SO_x emissions shall not exceed 6.25 pounds during any one hour. [District NSR Rule], [Federally Enforceable Through Title V]
9. The NO_x emissions shall not exceed 27.2 pounds during any one hour. [District NSR Rule], [Federally Enforceable Through Title V]
10. The CO emissions shall not exceed 54.4 pounds during any one hour. [District NSR Rule], [Federally Enforceable Through Title V]
11. The VOC emissions shall not exceed 12.8 pounds during any one hour. [District NSR Rule], [Federally Enforceable Through Title V]
12. The ammonia emissions shall not exceed 100 ppm, by volume, at 3% O₂. [District NSR Rule], [Federally Enforceable Through Title V]
13. The boiler shall be equipped with an automatic air/fuel ratio control system. [District NSR Rule], [Federally Enforceable Through Title V]
14. Natural gas fired burners shall be used during start-up to reach the solid fuel ignition temperature throughout the combustor before feeding any solid fuel. The natural gas burners shall be of staged combustion, low-NO_x design. [District NSR Rule], [Federally Enforceable Through Title V]
15. The facility shall install, calibrate, maintain, and operate an oxygen continuous emission monitoring system at the stack location of the combustion unit, in accordance with 40 CFR 60.47b, and 40 CFR 60 Appendices B and F. The sampling, analyzing, and data recording cycle shall be completed every successive 15 minute period. [40 CFR 60.47b], [Federally Enforceable Through Title V]
16. The facility shall install, calibrate, maintain, and operate a continuous opacity monitoring system in accordance with 40 CFR 60.48b, and 40 CFR 60 Appendices B and F. The sampling and analyzing cycle shall be completed every successive 10 second period, and the recording cycle shall be completed every successive 6 minute period. [40 CFR 60.48b], [Federally Enforceable Through Title V]
17. The facility shall install, calibrate, maintain, and operate a sulfur dioxide continuous emission monitoring system at the stack location of the combustion unit in accordance with 40 CFR 60.47b, and 40 CFR 60 Appendices B and F. The sampling, analyzing, and recording cycle shall be completed every successive 15 minute period. [40 CFR 60.47b], [Federally Enforceable Through Title V]
18. The facility shall install, calibrate, maintain, and operate a nitrogen oxides continuous emission monitoring system at the stack location of the combustion unit in accordance with 40 CFR 60.48b, and 40 CFR 60 Appendices B and F. The sampling, analyzing, and recording cycle shall be completed every successive 15 minute period. [40 CFR 60.48b], [Federally Enforceable Through Title V]
19. The facility shall install, calibrate, maintain, and operate a carbon monoxide continuous emission monitoring system at the stack location of the combustion unit in accordance with 40 CFR 60 Appendices B and F. The sampling, analyzing, and recording cycle shall be completed every successive 15 minute period. [District NSR Rule and 40 CFR 60], [Federally Enforceable Through Title V]

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20. Except during the annual source test, compliance with the hourly emission limits of NO_x, CO, and SO_x shall be determined by the continuous monitoring and recording equipment and shall be based on a 24 hour rolling average. [District NSR Rule and 4352], [Federally Enforceable Through Title V]
21. This unit is subject to the requirements of 40 CFR Part 60, Subpart Db: Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. [District Rule 4001], [Federally Enforceable Through Title V]
22. A daily fuel consumption log shall be maintained on the premises at all times. The log shall indicate the percentage distribution and the amount of each type of fuel burned. [District NSR Rule], [Federally Enforceable Through Title V]
23. Adequate amounts of agricultural waste which otherwise would be disposed of by open burning shall be used as boiler fuel to provide offsets at adequate ratios (i.e. 1.2:1 or 2:1 for offset sources within 15 miles radius or outside 15 mile radius respectively). [District NSR Rule], [Federally Enforceable Through Title V]
24. The above ratios shall be used to mitigate the following daily emissions limits: PM - 263.7 lbs; NO_x - 726.3 lbs; CO - 1,472 lbs; VOC - 314.8 lbs. [District NSR Rule], [Federally Enforceable Through Title V]
25. To obtain an average daily emission offset credit, first a monthly emission offset profile is developed by multiplying the quantity of each fuel by its respective emission factor. [District NSR Rule], [Federally Enforceable Through Title V]
26. Monthly emission credits are totalled for the year and multiplied by the appropriate offset ratio (1/2 or 1/1.2). The result is divided by the number of operating days during the year to establish an average daily offset credits. [District NSR Rule], [Federally Enforceable Through Title V]
27. Any fuel which is not combusted in the boiler within 12 months of delivery to the site shall not have any value for emission credits purposes. [District NSR Rule], [Federally Enforceable Through Title V]
28. The amount of fuel with no offset value shall be determined by subtracting the amount of fuel consumed by the boiler from the total amount of fuel received at the facility during any twelve month period. [District NSR Rule], [Federally Enforceable Through Title V]
29. No later than October 1st of each calendar year, the permittee shall provide District with legal, binding contracts with the owners of the offset sources which cover at the minimum, the full amount of offsets required for the following calendar year. [District NSR Rule], [Federally Enforceable Through Title V]
30. All such offset contracts shall become part of this Permit to Operate and shall be enforceable pursuant to the applicable rules and regulations. [District NSR Rule], [Federally Enforceable Through Title V]
31. No chemically treated wood products including painted or oil stained material other than pesticide sprayed agricultural waste shall be used as fuel. [District NSR Rule], [Federally Enforceable Through Title V]
32. Source testing shall be conducted, using the methods and procedures approved by the District to demonstrate compliance with the VOC, NO_x, CO, PM₁₀, SO_x, particulate matter, and ammonia emission limits on an annual basis. [District NSR Rule], [Federally Enforceable Through Title V]
33. Compliance with the hourly emission rates for NO_x, CO, VOC, SO_x, PM₁₀, and particulate matter and the ammonia concentration while source testing shall be determined using the arithmetic mean of the test runs as outlined in District Rule 1081-"Source Sampling" section 6.0. [District NSR Rule and 1081], [Federally Enforceable Through Title V]
34. The District must be notified 30 days prior to any compliance source testing and the permittee shall submit a source test plan for District approval at least 15 days prior to source test sampling. [District Rule 1081], [Federally Enforceable Through Title V]
35. The pre-test plan shall outline the test methods, procedures, and operating parameters for each source test required. [District Rule 1080], [Federally Enforceable Through Title V]
36. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081], [Federally Enforceable Through Title V]
37. No putrescible material shall be received at this facility and/or combusted in the boiler. [District NSR Rule], [Federally Enforceable Through Title V]
38. Prior notification and District approval shall be required upon any new fuel usage. [District NSR Rule], [Federally Enforceable Through Title V]
39. Source testing to measure concentrations of oxides of nitrogen (as NO₂) shall be conducted using EPA method 7E or CARB method 100. [District NSR Rule], [Federally Enforceable Through Title V]
40. Source testing to measure concentrations of carbon monoxide (CO) shall be conducted using EPA method 10, or CARB methods 10 or 100. [District NSR Rule], [Federally Enforceable Through Title V]
41. Source testing to measure the stack gas oxygen shall be conducted using EPA methods 3 or 3A, or CARB method 100. [District NSR Rule], [Federally Enforceable Through Title V]
42. Source testing to measure concentrations of volatile organic compounds (VOC) shall be conducted using EPA methods 18 or 25, or CARB method 100. [District NSR Rule], [Federally Enforceable Through Title V]

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43. Source testing to measure concentrations of oxides of sulfur (SO_x) as SO₂ shall be conducted using EPA methods 6 or 8, or CARB method 100. [District NSR Rule], [Federally Enforceable Through Title V]
44. Source testing to measure concentrations of total particulate emissions shall be conducted using CARB method 5. The results of each test shall not include ammonia sulfate compounds. [District NSR Rule], [Federally Enforceable Through Title V]
45. Source testing to measure concentrations of PM₁₀ shall be conducted using EPA method 201 and 202, or EPA method 201a and 202, or CARB method 501 and 5. [District NSR Rule], [Federally Enforceable Through Title V]
46. In lieu of performing a source test for PM₁₀, the results of the total particulate test may be used for compliance with the PM₁₀ emissions limit. [District NSR Rule], [Federally Enforceable Through Title V]
47. Source testing to measure stack gas velocity shall be conducted using EPA method 2 or CARB method 2. [District NSR Rule], [Federally Enforceable Through Title V]
48. Source testing to measure the stack gas moisture content shall be conducted using EPA method 4 or CARB method 4. [District NSR Rule], [Federally Enforceable Through Title V]
49. Source testing to measure concentrations of NH₃ shall be conducted using Bay Area Air Quality Management District (BAAQMD) method ST-1B. [District NSR Rule], [Federally Enforceable Through Title V]
50. Solid fuel higher heating value (h_h) shall be determined by ASTM Method D 2015, or ASTM Method E 711. [District Rule 4352, 6.2.2, and 6.4.1], [Federally Enforceable Through Title V]
51. All emission measurements shall be made with the unit operating at condition representative of normal operations. No compliance shall be established within two hours after a continuous period in which fuel flow to the unit is zero, or is shut off for 30 minutes or longer. [District Rule 4352, 6.4.2, and 6.4.3], [Federally Enforceable Through Title V]
52. Daily summaries of continuous monitoring records for each calendar quarter shall be submitted to the District within 30 days of the end of each calendar quarter. [District Rule 1080, and 40 CFR 60.49b(i)], [Federally Enforceable Through Title V]
53. The quarterly report shall identify each period of excess emissions that occurs during startups, shutdowns, or malfunctions. The nature and cause of each malfunction, corrective action taken, and preventive measures adopted shall also be reported. [District Rule 1080, and 40 CFR 60.49b(h)], [Federally Enforceable Through Title V]
54. Result of continuous emissions monitoring must be reduced according to the procedures established in 40 CFR, Part 51, Appendix P, paragraph 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080], [Federally Enforceable Through Title V]
55. A violation of NO_x emission standards indicated by NO_x CEMS shall be reported by the operator to the District within 96 hours. [District Rule 1080], [Federally Enforceable Through Title V]
56. Operator shall notify the District no later than eight hours after the detection of a breakdown of the CEMS. The operator shall inform the District of the intent to shutdown the CEMS at least 24 hours prior to the event. [District Rule 1080], [Federally Enforceable Through Title V]
57. All records shall be retained for a minimum of five years, and shall be made available for District inspection upon request. [District Rule 2520, 9.5.2], [Federally Enforceable Through Title V]
58. No owner or operator that simultaneously combusts natural gas with wood, municipal-type solid waste, or other solid fuel shall cause to be discharged into the atmosphere any gases that contain nitrogen oxides in excess of 0.30 lb/MMBtu heat input. [40 CFR 60.44b(d)], [Federally Enforceable Through Title V]
59. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 1080, Sections 4, 6.5, 6.6, 6.7, 7.2, 8.0, 9.0, and 10. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
60. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of County Rules 108.1 (San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
61. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4201. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
62. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4301, Sections 5.1, 5.2.2, and 5.2.3. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
63. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4352, Sections 5.1, and 5.3. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
64. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rules 4801. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

Initial TV Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1026-2-1

EXPIRATION DATE: 07/31/2005

EQUIPMENT DESCRIPTION:
EMERGENCY STANDBY DIESEL ENGINE/FIRE PUMP

PERMIT UNIT REQUIREMENTS

1. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Rule 404 (Madera), 406 (Fresno) and 407 (6 remaining counties in the San Joaquin Valley)], [Federally Enforceable Through Title V]
2. Particulate matter emissions shall not exceed in concentration at the point of discharge 0.1 gr/dscf. [District Rule 4201; Rule 402 (Madera) and 404 (all 7 remaining counties in the San Joaquin Valley)], [Federally Enforceable Through Title V]
3. Unit shall be fired only on diesel fuel with a sulfur content of less than 0.05% by weight. [Rule 404 (Madera), 406 (Fresno) and 407 (6 remaining counties in the San Joaquin Valley)], [Federally Enforceable Through Title V]
4. If the IC engine is fired on Air Resources Board regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, the operator shall maintain copies of all fuel invoices and supplier certifications. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. If the IC engine is not fired on ARB regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, then the owner or operator shall determine the sulfur content of each delivery of diesel fuel being fired in the IC engine. The sulfur content shall be determined using ASTM method D 2880. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. Records of operating hours shall be kept for units operating less than 200 hours per year. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. On all units which are not emergency or backup IC engines operating less than 200 hours per year, operator shall perform a source test for particulate emissions within 6 months of the initial Title V permit issuance. A source test for particulate emissions conducted within the 24 months prior to permit issuance shall be considered compliance with this testing requirement. Source testing for particulate matter shall be performed according to EPA Method 5, stack gas velocity by EPA Method 2, and the stack gas moisture content by EPA Method 4. If the initial PM test result is less than or equal to 0.06 grain/dscf, then testing shall occur not less than once every 5 years. Otherwise testing shall occur not less than once every 24 months. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
8. Test results from an engine that represents a group of engines in terms of rated brake horsepower, engine make and series, operational conditions, fuel used, and control method, shall satisfy testing requirements provided this group of engines is owned and operated by a single owner/operator. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.5.2], [Federally Enforceable Through Title V]
10. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201; Rule 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
11. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rules 402 (Madera) and 404 (Fresno, Merced, Kern, Kings, San Joaquin, Stanislaus, Tulare). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
12. The engine shall be operated on an emergency standby basis only. [District NSR Rule], [Federally Enforceable Through Title V]

Initial TV Permit
San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1026-3-0

EXPIRATION DATE: 07/31/2005

EQUIPMENT DESCRIPTION:
FUEL HOG (CONSOLIDATE WITH 5-2)

PERMIT UNIT REQUIREMENTS

1. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann 1/4 or equivalent to 5% opacity. [District Rule 4101]

Initial TV Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1026-4-1

EXPIRATION DATE: 07/31/2005

EQUIPMENT DESCRIPTION:
ASH AND FUEL STORAGE AREA

PERMIT UNIT REQUIREMENTS

1. All haul roads and other areas traversed by mobile equipment and/or motor vehicles shall be adequately moistened with water at such a frequency as required to minimize emissions of particulate matter. [District NSR Rule and 4101], [Federally Enforceable Through Title V]
2. Water all unpaved roads used for any vehicular traffic once daily and restrict vehicle speeds to 15 miles per hour. [District NSR Rule and 4101], [Federally Enforceable Through Title V]
3. All open fuel storage area shall be maintained adequately moist to prevent any visible dust in the atmosphere beyond the property line of the emission source. [District NSR Rule and 4101], [Federally Enforceable Through Title V]
4. All ash and fuel stockpiles shall be maintained adequately moist with water at such a frequency as required to minimize fugitive dust emissions. [District NSR Rule and 4101], [Federally Enforceable Through Title V]
5. Apply water to the entire surface area of all open ash storage piles on a daily basis when there is evidence of wind driven fugitive dust. [District NSR Rule and 4101], [Federally Enforceable Through Title V]
6. The moisture content of the ash stored shall be maintained at or above 6% by weight at all times. [District NSR Rule], [Federally Enforceable Through Title V]
7. The ash moisture content shall be tested weekly. Ash moisture content shall be determined by using ASTM Method D 2216 (Standard Test Method For Laboratory Determination Of Water Moisture Content of Soil and Rock By Mass), or other equivalent test methods approved by the EPA, ARB, and the District. [District NSR Rule], [Federally Enforceable Through Title V]
8. Visible emissions from ash and fuel storage area shall be checked weekly. If visible emissions in excess of 20% are observed, corrective action shall be taken to minimize visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District NSR Rule], [Federally Enforceable Through Title V]
9. The total on site ash and fuel storage area shall be limited to 28 acres. [District NSR Rule], [Federally Enforceable Through Title V]
10. The PM10 emission concentration from the fuel and ash storage shall not exceed 0.6 pounds per acre-day. [District NSR Rule], [Federally Enforceable Through Title V]
11. The total amount of fuel received, stockpiled, and moved shall not exceed 1,530 dry tons per day. [District NSR Rule], [Federally Enforceable Through Title V]
12. The total amount of both fly ash and bottom ash produced by the biomass boiler and stockpiled shall not exceed 125 tons per day. [District NSR Rule], [Federally Enforceable Through Title V]
13. The PM10 emission concentration from the stockpiling, mixing and moving operations shall not exceed 0.0059 pounds per ton of material received. [District NSR Rule], [Federally Enforceable Through Title V]
14. Records of type of control measures used, the location and extent of control coverage, the date and frequency of application of dust suppressant, and ash moisture content shall be maintained. The records shall include identification of the area, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 1070], [Federally Enforceable Through Title V]
15. Daily records indicating the amount of ash and fuel put into storage and the amount of storage area used shall be maintained on site. [District NSR Rule], [Federally Enforceable Through Title V]
16. The particulate matter emissions shall not exceed an hourly rate as calculated in District Rule 4202 using the equation $E=3.59P^{0.62}$ ($P<30$ tons/hr) or $E=17.31P^{0.16}$ ($P>30$ tons/hr). [District Rule 4202], [Federally Enforceable Through Title V]
17. Visible emissions shall be inspected annually under material and environmental conditions, such as dry and windy, where high emissions are expected. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
18. Records of inspections shall be maintained for a period of at least five years. The records shall include date of inspection, corrective action taken, and identification of individual performing the inspection. [District Rule 2520, 9.4.2, 9.5.2], [Federally Enforceable Through Title V]

Initial TV Permit

19. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4202, Section 4.0. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

Initial TV Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1026-5-1

EXPIRATION DATE: 07/31/2005

EQUIPMENT DESCRIPTION:

PRIMARY FUEL HANDLING SYSTEM CONSISTING OF TWO RECLAIM AND BLENDING AREAS, CONVEYING TO A DISK SCREEN OR DIVERTED TO A HOG FOR CHIP SIZING, BULK CONVEYOR, FUEL INFEED CONVEYOR, DISTRIBUTION CONVEYOR, THREE METERING BINS, OVERFEED CONVEYOR. SECONDARY FUEL HANDLING SYSTEM CONSISTS OF A RECLAIM AND MIXING AREA, AND A SECONDARY INFEED CONVEYOR SERVING THE DISTRIBUTION CONVEYOR. ALTERNATE BIOMASS FUEL HANDLING SYSTEM CONSISTING OF A 10 CUBIC YARD FEED HOPPER AND AN ENCLOSED FEED CONVEYOR WITH AN ENCLOSED TRANSFER POINT SERVING THE PRIMARY FUEL HANDLING SYSTEM.

PERMIT UNIT REQUIREMENTS

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1. All conveyor transfer points shall be enclosed or shall be equipped with water spray equipment. The water spray equipment shall be in proper operating condition at all times and must be used as required to minimize particulate emissions. [District NSR Rule], [Federally Enforceable Through Title V]
 2. The disc screen, wood hog, and all associated equipment and transfer points shall be enclosed. [District NSR Rule], [Federally Enforceable Through Title V]
 3. The amount of material handled by the primary fuel handling system shall not exceed 960 tons per day. [District NSR Rule], [Federally Enforceable Through Title V]
 4. The PM10 emission concentration from the primary fuel handling system shall not exceed 0.00067 pounds per ton. [District NSR Rule], [Federally Enforceable Through Title V]
 5. The amount of material handled by the secondary/emergency handling system shall not exceed 960 tons per day. [District NSR Rule], [Federally Enforceable Through Title V]
 6. The PM10 emission concentration from the secondary/emergency fuel handling system shall not exceed 0.00024 pounds per ton. [District NSR Rule], [Federally Enforceable Through Title V]
 7. The amount of material handled by the alternate biomass handling system shall not exceed 270 tons per day. [District NSR Rule], [Federally Enforceable Through Title V]
 8. The PM10 emission concentration from the alternate biomass fuel handling system shall not exceed 0.00023 pounds per ton. [District NSR Rule], [Federally Enforceable Through Title V]
 9. Daily records indicating the amount of fuel throughput in the primary fuel handling system, the secondary/emergency fuel handling system, and the alternate biomass handling system shall be maintained on site. [District NSR Rule], [Federally Enforceable Through Title V]
 10. The particulate matter emissions shall not exceed an hourly rate as calculated in District Rule 4202 using the equation $E=3.59P^{0.62}$ ($P<30$ tons/hr) or $E=17.31P^{0.16}$ ($P>30$ tons/hr). [District Rule 4202], [Federally Enforceable Through Title V]
 11. Enclosure shall be completely inspected annually for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
 12. Records of system maintenance, inspections and repairs shall be maintained for a period of at least five years. The records shall include identification of equipment, date and time of inspection, corrective action taken, and identification of individual performing the inspection. [District Rule 2520, 9.4.2, and 9.5.2], [Federally Enforceable Through Title V]
 13. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4202, Section 4.0. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

Initial TV Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1026-6-1

EXPIRATION DATE: 07/31/2005

EQUIPMENT DESCRIPTION:

FLYASH HANDLING SYSTEM FROM THE BOILER, THE MULTI-CLONES, AND THE ELECTROSTATIC PRECIPITATOR VIA ENCLOSED CONVEYORS TO A 550 CF ASH HOPPER. ASH CONDITIONER ADDITIVE RECEIVING AND STORAGE SYSTEM. THE ASH HOPPER SERVES AN ASH MIXER AND A TRUCK LOADOUT SPOUT.

PERMIT UNIT REQUIREMENTS

1. Replacement bags numbering at least 10% of the total number of bags in the largest dust collector using each type of bag shall be maintained on the premises. [District NSR Rule], [Federally Enforceable Through Title V]
2. The cleaning frequency and duration of the dust collector shall be adjusted to optimize the control efficiency. [District NSR Rule], [Federally Enforceable Through Title V]
3. Visible emissions from the ash handling and loadout operations, prior to loading to the ash storage area (N-1026-4), shall not exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District NSR Rule], [Federally Enforceable Through Title V]
4. Visible emissions from the dust collector serving the ash conditioner additive silo shall not exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District NSR Rule], [Federally Enforceable Through Title V]
5. The flyash from the boiler, the multi-clones, and the electrostatic precipitator shall be transferred into the ash hopper through a totally enclosed dust tight conveying system. [District NSR Rule], [Federally Enforceable Through Title V]
6. Upon discharge from the storage silo and prior to loading into trucks, ash shall be moistened with water to minimize fugitive emissions. [District NSR Rule], [Federally Enforceable Through Title V]
7. The amount of fly ash and ash conditioner produced from the boiler shall not exceed 85 tons per day. [District NSR Rule], [Federally Enforceable Through Title V]
8. The PM10 emission concentration shall not exceed 0.0117 pounds per ton of fly ash and ash conditioner produced. [District NSR Rule], [Federally Enforceable Through Title V]
9. The amount of ash conditioner additive received shall not exceed 103.4 tons per day. [District NSR Rule], [Federally Enforceable Through Title V]
10. The PM10 emission concentration from the ash conditioner additive receiving operation shall not exceed 0.0039 pounds per ton of additive received. [District NSR Rule], [Federally Enforceable Through Title V]
11. Daily records indicating the amount of ash conditioner received and the amount of fly ash and ash conditioner mixed and collected from the biomass boiler shall be maintained on site. [District NSR Rule], [Federally Enforceable Through Title V]
12. All records shall be retained for a minimum of 5 years, and shall be made available for District inspection upon request. [District Rule 1070 and 2520, 9.5.2], [Federally Enforceable Through Title V]
13. Flyash conveying system shall be completely inspected annually for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
14. Ash conditioner receiving and storage system and ash loadout operation shall be inspected for visible emissions annually under material and environmental conditions, such as dry and windy, where high emissions are expected. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
15. Particulate matter emissions shall not exceed an hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202], [Federally Enforceable Through Title V]
16. Vent filters serving the ash conditioner additive silo shall be inspected for visible emissions annually during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions prior to further loading. Corrective action shall eliminate visible emissions before next loading event. The results of inspection shall be kept in a record and shall be made available to the District upon request. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. Permittee shall perform a complete vent filter inspection on an annual basis. Vent filters shall be inspected thoroughly for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

Initial TV Permit

18. Records of vent filter maintenance, inspections and repairs shall be maintained. The records shall include identification of equipment, date and time of inspection, corrective action taken, and identification of individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
19. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4202, Section 4.0. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

Initial TV Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1026-7-1

EXPIRATION DATE: 07/31/2005

EQUIPMENT DESCRIPTION:

LIMESTONE/LIME RECEIVING AND STORAGE TO A 25 TON STORAGE SILO VENTED TO A DUST COLLECTOR.

PERMIT UNIT REQUIREMENTS

1. Visible emissions from the dust collector serving the storage silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District NSR Rule], [Federally Enforceable Through Title V]
2. The vent filter shall be equipped with a pressure differential gauge to indicate the pressure drop across the filters. The gauge shall be maintained in good working condition at all times. [District NSR Rule], [Federally Enforceable Through Title V]
3. Replacement bags numbering at least 10% of the total number of bags in the largest dust collector using each type of bag shall be maintained on the premises. [District NSR Rule], [Federally Enforceable Through Title V]
4. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule], [Federally Enforceable Through Title V]
5. The dust collector cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District NSR Rule], [Federally Enforceable Through Title V]
6. Limestone/Lime shall be received through direct coupled pneumatic unloading trucks. [District NSR Rule], [Federally Enforceable Through Title V]
7. The pneumatic transfer components and connections shall be totally dust tight. [District NSR Rule], [Federally Enforceable Through Title V]
8. The storage silo shall be totally dust tight and vented only through the dust collector. [District NSR Rule], [Federally Enforceable Through Title V]
9. The amount of lime/limestone received shall not exceed 25 tons per day. [District NSR Rule], [Federally Enforceable Through Title V]
10. The PM10 emission concentration shall not exceed 0.0049 pounds per ton of lime/limestone received. [District NSR Rule], [Federally Enforceable Through Title V]
11. Daily records indicating the amount of lime/limestone received shall be maintained on site. [District NSR Rule], [Federally Enforceable Through Title V]
12. All records shall be retained for a minimum of five years, and shall be made available for District inspection upon request. [District Rule 1070 and 2520, 9.5.2], [Federally Enforceable Through Title V]
13. Visible emissions from the dust collector serving the storage silo shall be inspected annually during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
14. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
15. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
16. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. Particulate matter emissions shall not exceed an hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202], [Federally Enforceable Through Title V]
18. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4202, Section 4.0. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

Initial TV Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1026-8-1

EXPIRATION DATE: 07/31/2005

EQUIPMENT DESCRIPTION:

BULK FUEL TRUCK UNLOADING STATION CONSISTING OF TWO TRUCK TIPPERS.

PERMIT UNIT REQUIREMENTS

1. All haul roads and other roadways traversed by mobile equipment and/or motor vehicles shall be adequately moistened with water at such a frequency as required to prevent visible emissions equal to or in excess of 20% opacity from such roads. [District NSR Rule], [Federally Enforceable Through Title V]
2. Water all unpaved roads used for any vehicular traffic once daily and restrict vehicle speeds to 15 miles per hour. [District NSR Rule and 4101], [Federally Enforceable Through Title V]
3. Fugitive particulate matter emissions generated during the unloading of trucks shall be minimized by a wet dust suppression system. [District NSR Rule], [Federally Enforceable Through Title V]
4. Spray nozzles shall be located around the Truck Unloading Discharge area. [District NSR Rule], [Federally Enforceable Through Title V]
5. The wet dust suppression system shall be automatically activated as the truck unloading operation begins. [District NSR Rule], [Federally Enforceable Through Title V]
6. The amount of fuel material received shall not exceed 1,530 dry tons in any one day. A dry ton is the weight of the biomass fuel with a moisture content of less than 30%. [District NSR Rule], [Federally Enforceable Through Title V]
7. The PM10 emission concentration shall not exceed 0.0018 pounds per dry ton of material received. [District NSR Rule], [Federally Enforceable Through Title V]
8. The permittee shall maintain a daily log of all fuel material received. The log shall indicate the amount of fuel received in dry tons, the type of fuel, and the location from which the fuel was obtained. [District NSR Rule], [Federally Enforceable Through Title V]
9. All records shall be retained for a minimum of five years, and shall be made available for District inspection upon request. [District Rule 1070 and 2520, 9.5.2], [Federally Enforceable Through Title V]
10. Particulate matter emissions shall not exceed an hourly rate as calculated in District Rule 4202 using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202], [Federally Enforceable Through Title V]
11. Wet dust suppression system shall be inspected weekly and maintained in a good operating condition. Records of system maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
12. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4202, Section 4.0. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

Initial TV Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1026-9-1

EXPIRATION DATE: 07/31/2005

EQUIPMENT DESCRIPTION:

MAGNETEK (MODEL RD 630) 50 KW EMERGENCY GENERATOR SERVED BY A PERKINS 89.2 HP DIESEL FIRED INTERNAL COMBUSTION ENGINE EQUIPPED WITH AN ENGELHARD 5DVC CATALYTIC CONVERTER.

PERMIT UNIT REQUIREMENTS

1. The engine shall be operated with the timing retarded four degrees from the manufacturer's standard recommended timing. [District NSR Rule], [Federally Enforceable Through Title V]
2. The engine shall be equipped with a turbocharger. [District NSR Rule], [Federally Enforceable Through Title V]
3. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule], [Federally Enforceable Through Title V]
4. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. [District NSR Rule], [Federally Enforceable Through Title V]
5. Operation of the engine for maintenance and testing purposes shall not exceed 200 hours per year. [District NSR Rule], [Federally Enforceable Through Title V]
6. The permittee shall maintain records of hours of emergency and non-emergency operation and of the sulfur content of the diesel fuel used and shall make such records readily available to District staff upon request. [District NSR Rule], [Federally Enforceable Through Title V]
7. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Rule 404 (Madera), 406 (Fresno) and 407 (6 remaining counties in the San Joaquin Valley)], [Federally Enforceable Through Title V]
8. Particulate matter emissions shall not exceed in concentration at the point of discharge 0.1 gr/dscf. [District Rule 4201; Rule 402 (Madera) and 404 (all 7 remaining counties in the San Joaquin Valley)], [Federally Enforceable Through Title V]
9. Unit shall be fired only on diesel fuel with a sulfur content of less than 0.05% by weight. [Rule 404 (Madera), 406 (Fresno) and 407 (6 remaining counties in the San Joaquin Valley)], [Federally Enforceable Through Title V]
10. If the IC engine is fired on Air Resources Board regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, the operator shall maintain copies of all fuel invoices and supplier certifications. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
11. If the IC engine is not fired on ARB regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, then the owner or operator shall determine the sulfur content of each delivery of diesel fuel being fired in the IC engine. The sulfur content shall be determined using ASTM method D 2880. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
12. Test results from an engine that represents a group of engines in terms of rated brake horsepower, engine make and series, operational conditions, fuel used, and control method, shall satisfy testing requirements provided this group of engines is owned and operated by a single owner/operator. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.5.2], [Federally Enforceable Through Title V]
14. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201; Rule 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
15. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rules 402 (Madera) and 404 (Fresno, Merced, Kern, Kings, San Joaquin, Stanislaus, Tulare). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

Initial TV Permit